



Precision agriculture '19



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John V. Stafford

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Foreword

Prof. Bruno Tisseyre, Conference Chair
April 16, Montpellier SupAgro, Montpellier, France

Dear Reader,

In 2001, the city of Montpellier hosted the 3rd European Conference on Precision Agriculture (ECPA). Now, 18 years later, we are very pleased to welcome the Precision Agriculture scientific community back to Montpellier for 12ECPA.

We sincerely hope this 12th European Conference on Precision Agriculture will result in a profitable meeting for everyone and will provide some solutions to the challenges that modern agriculture is facing.

We are grateful to Montpellier SupAgro, Irstea and the International Society of Precision Agriculture (ISPA) for supporting us in the organisation of this event. We would especially like to thank and to congratulate John V. Stafford, the editor of these proceedings, for the enormous and accurate job he has done in producing this tome. In addition, we are also grateful to all the members of the conference Scientific Committee for their invaluable contribution in supporting John and assuring the scientific quality of the communications presented at this conference. There has been excellent interaction with Wageningen Academic Publishers in producing these proceedings which will be accessed for many years hence – they have been so helpful.

We appreciate the financial contribution of all the sponsors of 12ECPA, which includes private companies as well as public institutions and consortia. We would also like to express our gratitude to all the authors and attendees. The conference is nothing without your support and engagement. We will have more than 120 oral communications (compiled in this Conference Proceedings) and nearly 80 posters presented at the conference. This is a strong indication of the trust placed in this conference as a source of knowledge related to Precision Agriculture.

Finally, as the Chair, I am indebted to the support and hard work of the conference Organising Committee over the past 2 years in bidding for and delivering this conference. It is simply not possible to do this without a fantastic team behind the scenes. The Organising Committee is composed of academics and engineers from a joint team of Montpellier SupAgro (Institute for Higher Education in Agriculture) and Irstea (National Research Institute of Science and Technology for the Environment and Agriculture); The UMR ITAP team (joined research team in information-technologies-environmental analysis-agricultural processes). We are all both honoured and delighted to have worked for you and to have helped advance methods and techniques in Precision Agriculture.

Bon congrès à tous!

Bruno

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Scientific committee

The mission of the Scientific Committee has been to guarantee the academic quality of the proceedings of the 12th European Conference on Precision Agriculture by reviewing and assessing each of the 163 full papers submitted. The committee was chaired by Dr John V. Stafford, in his capacity as the editor of the 12th ECPA proceedings. The Scientific Committee of the 12th ECPA was made up of 135 internationally renowned researchers working collectively across all facets of Precision Agriculture.

Poster and Oral communications have followed different parallel processes. In order to guarantee the academic quality of the proceedings, all abstracts submitted for consideration (295 total submissions) were assessed by the Editor to decide which were to be invited as full papers submissions. The full papers submitted for oral presentation then followed a peer review process carefully managed by the Editor. Each paper was assessed by two members of the Scientific Committee and, where recommended, revisions made before final acceptance by the Editor. The result is the Proceedings (124 papers) that you are currently reading. Poster abstracts were shorter (two pages) and assessed by a local committee chaired by Dr James Taylor. The accepted poster abstracts were edited and published as an electronic book 'Book of Poster abstracts', with a corresponding ISBN.

Copies of the proceedings of the 12th ECPA have been sent to Elsevier, Thomson Reuters and others considered of interest so that the peer-reviewed full papers can be considered for indexing in the Scopus and the Web of Knowledge academic databases. After the conference, authors of oral presentations will be invited to expand their manuscripts with additional data/analyses and submit them to a special ECPA '19 issue of the journal Precision Agriculture (<https://link.springer.com/journal/11119>).

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